ABSTRACT OF THE DISCLOSURE

In a data communication method and apparatus, message communication within a complex object is executed in the same execution thread, and a history of message communication is updated to indicate message communication from the same execution thread. In message communication directed from within a complex object to an external object, a message or messages are temporarily stored on a destination-by-destination basis. When message processing completes, the history of message communication is checked, so that the stored message or messages are transmitted in a single message communication operation.